

FIG. 1: Prior Art

```

<%@ taglib uri="/WEB-INF/templates/jsp/tld/template.tld" prefix="jetspeed" %>
<%%@ page import = "org.apache.turbine.util. #" %>
<%%@ page import="org.apache.jetspeed.modules.actions.portlets.JspPortletAction" %>
<%%@ page import="org.apache.jetspeed.portal.Portlet" %>
<%%@ page import="org.apache.jetspeed.util.PortletSessionState" %>

<%try {
    RunData runda = (RunData) request.getAttribute("runda");
    final String userid = runda.getUser().getUserName();
    String jspeid = (String) request.getAttribute("js_peid");
    String address = (String) request.getParameters().getAttribute("address");
} %>

<FORM name="addressFrm" method="post" action="<jetspeed:dynamicUri/>">
<INPUT TYPE="hidden" NAME="js_peid" VALUE="<%=jspeid%>">
<textarea name="address"><%= address %></textarea>
<input type="submit" name="eventSubmit_doUpdate" value="Submit">

</form>
<% }
catch (Exception e) {
    AppObjects.log("Error: error in jsppage", e);
    return;
} %>

```

FIG. 2: Prior Art

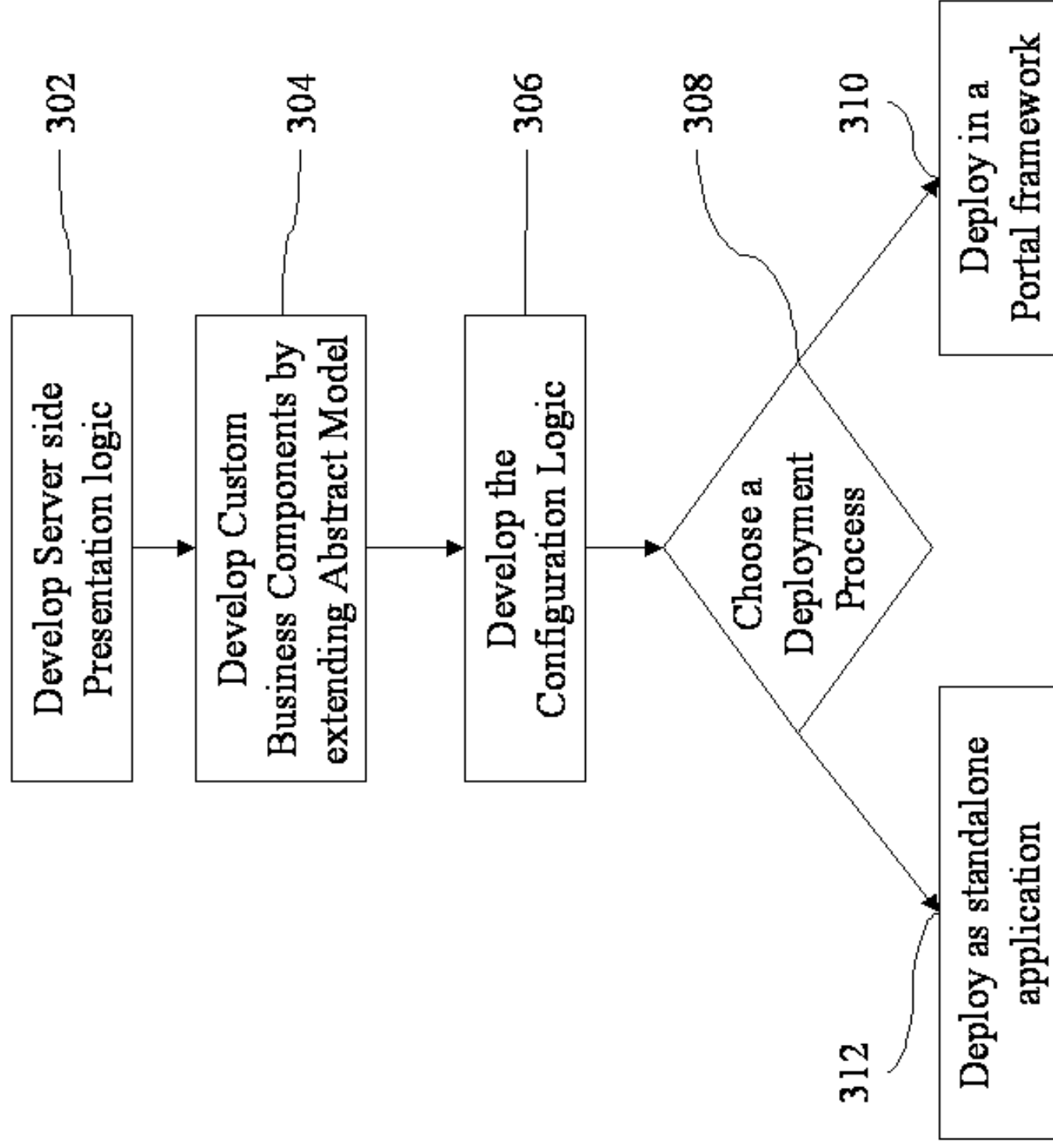


FIG. 3

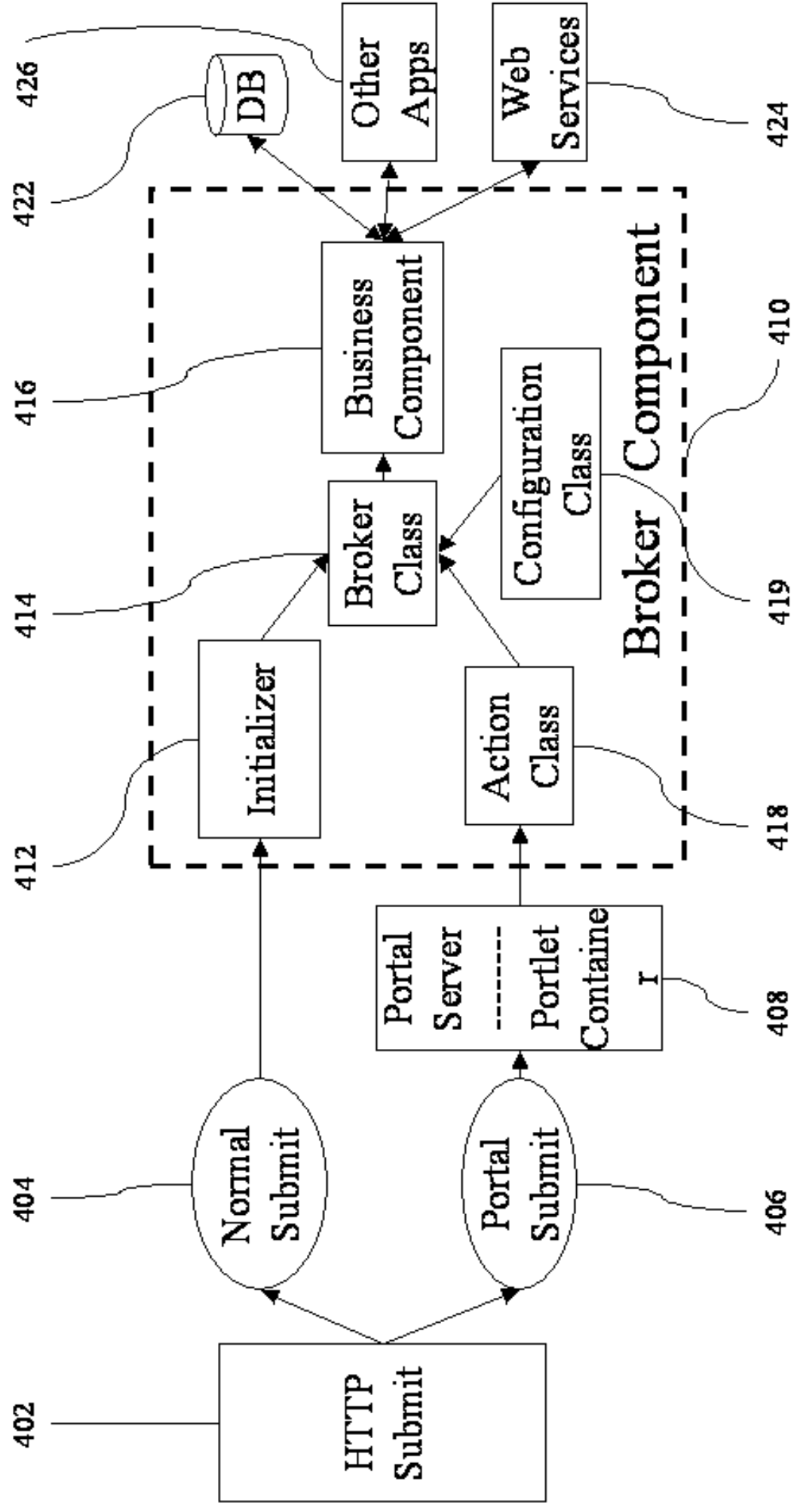


FIG. 4

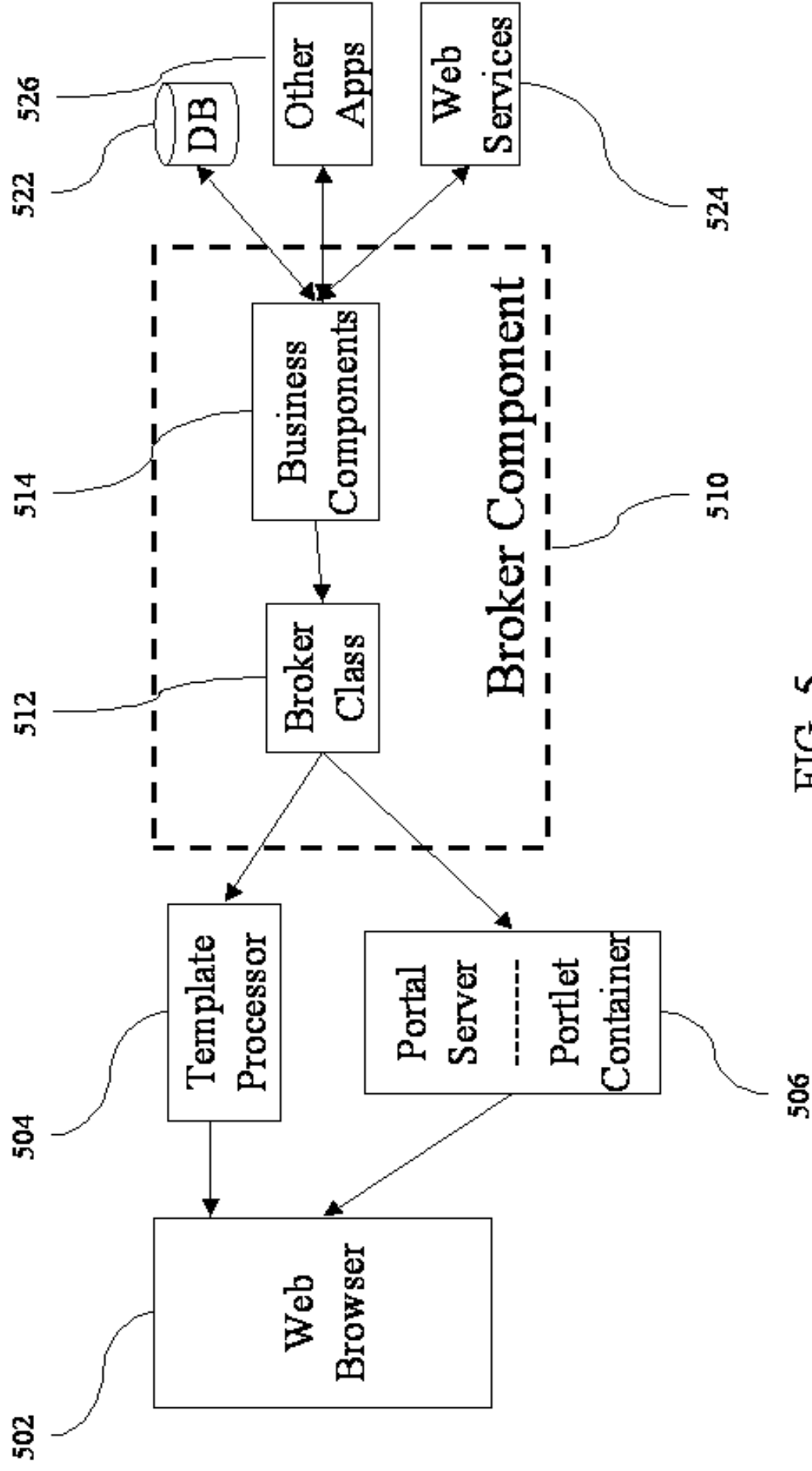


FIG. 5

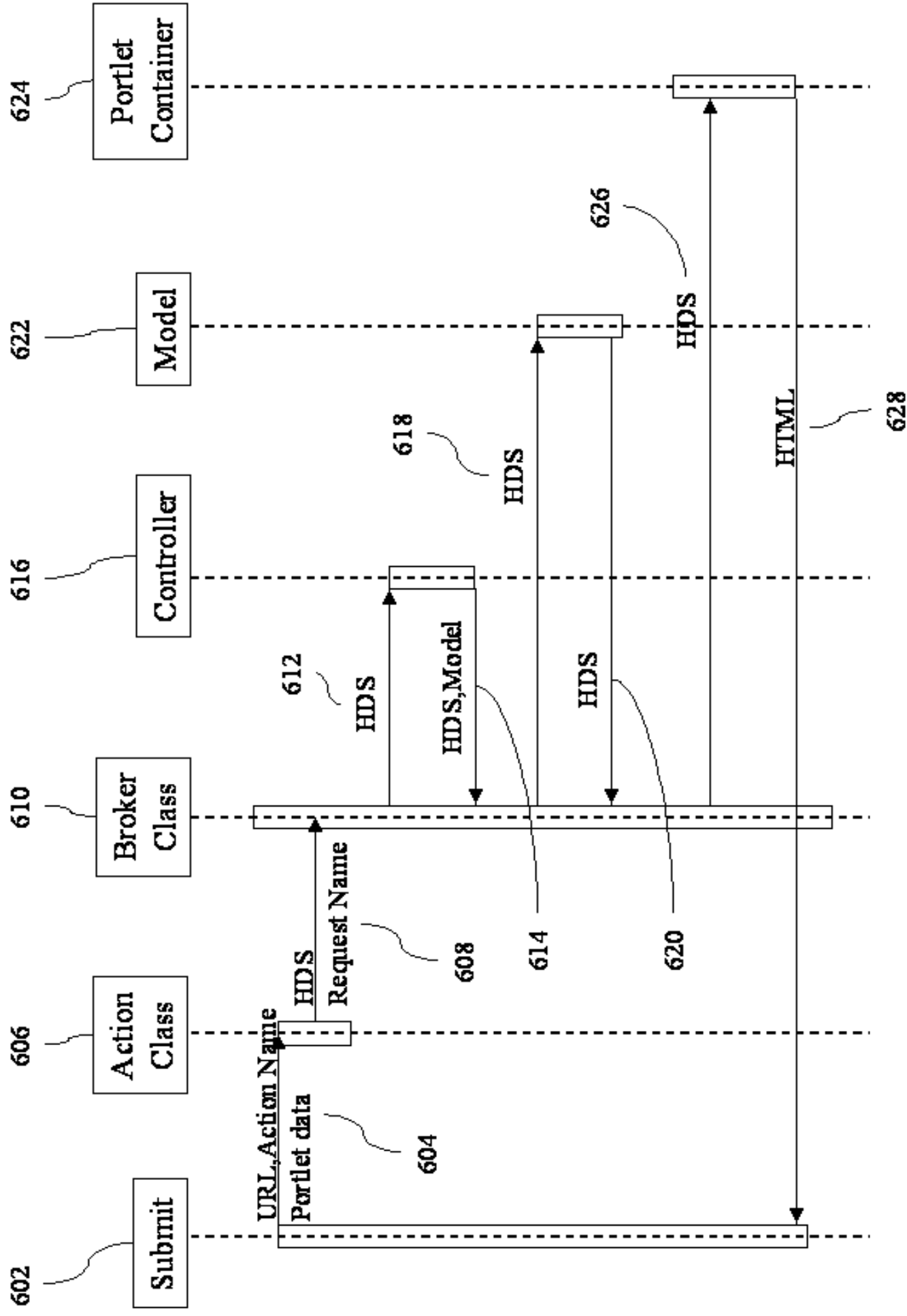


FIG. 6

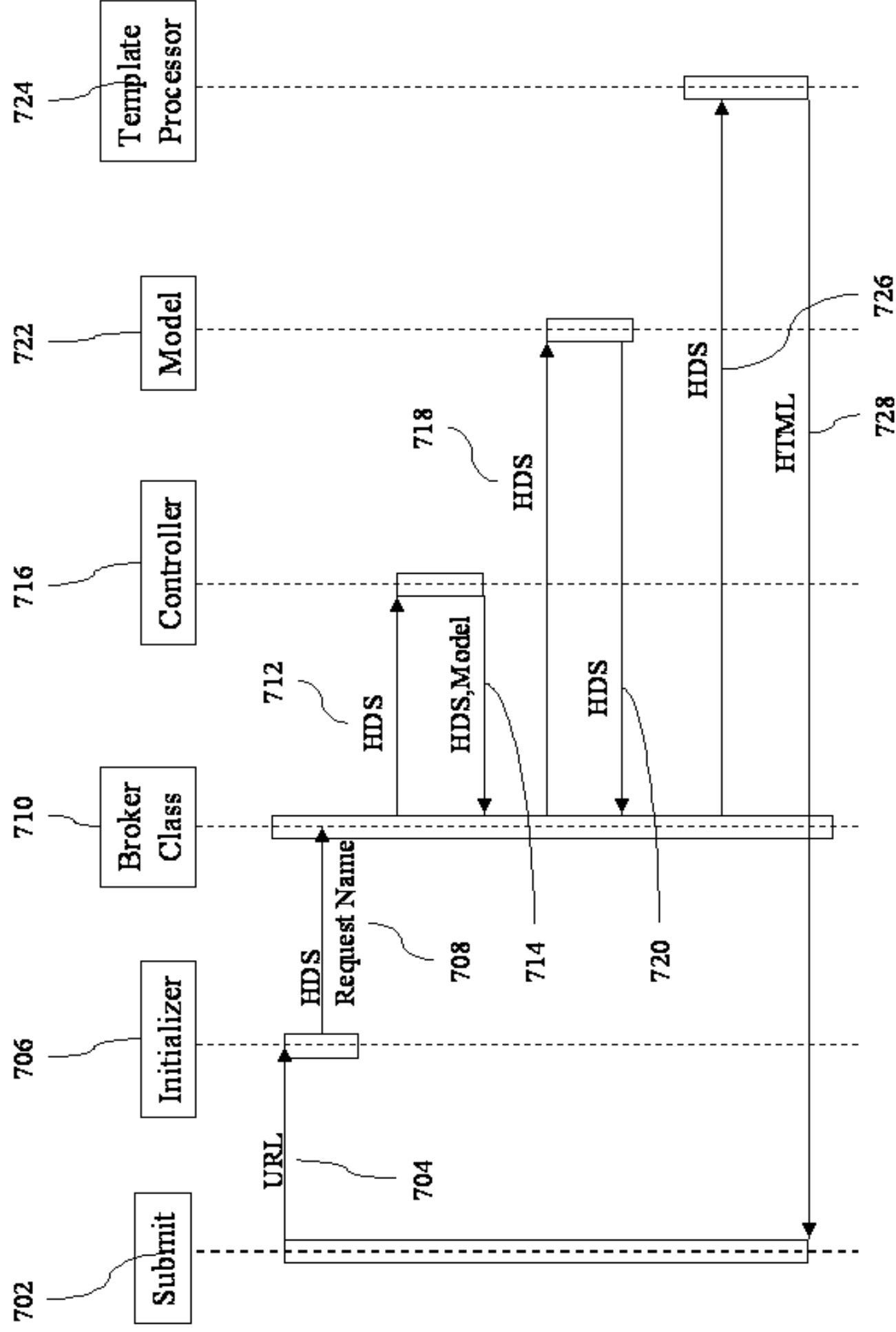


FIG. 7

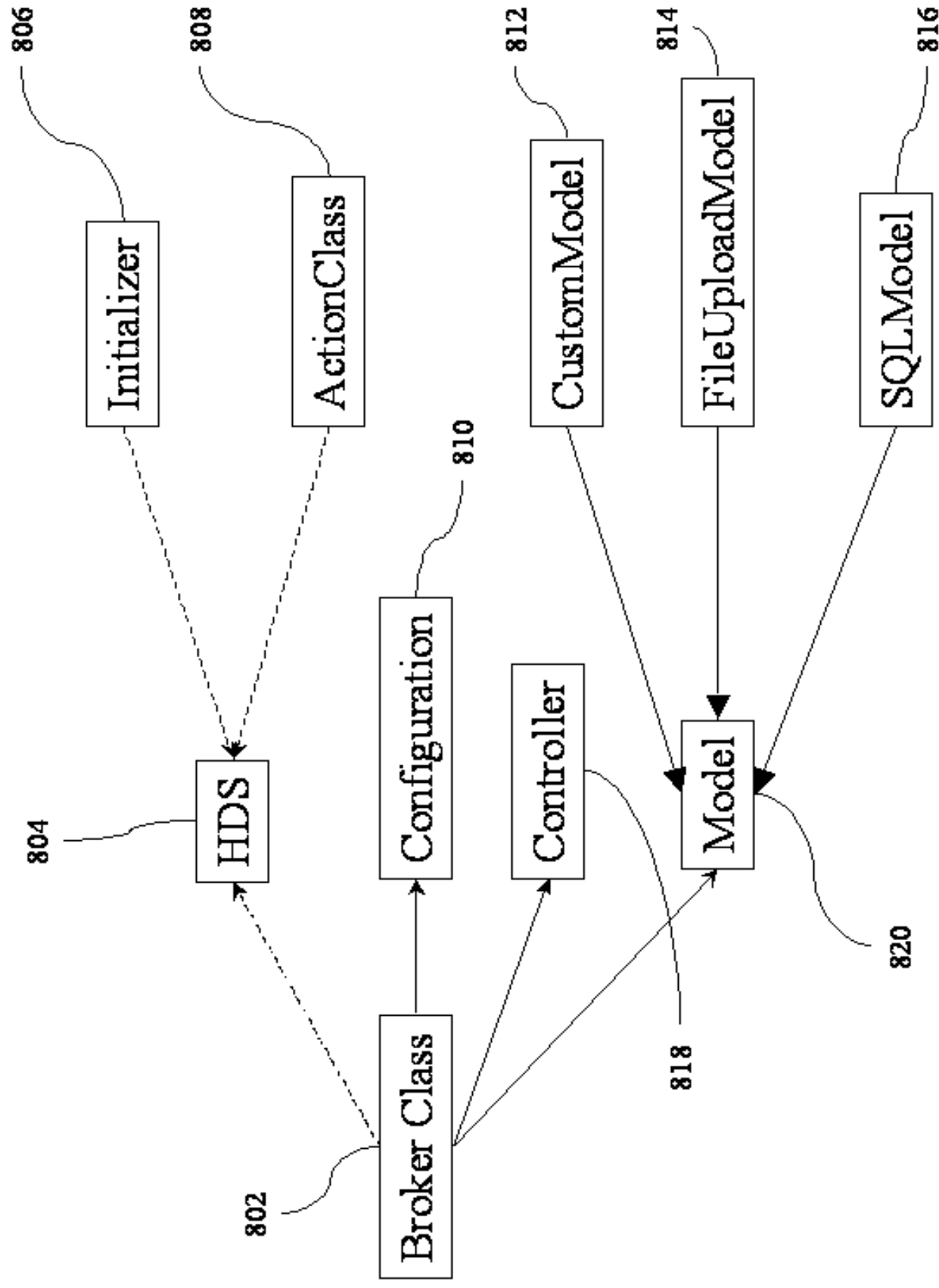


FIG. 8



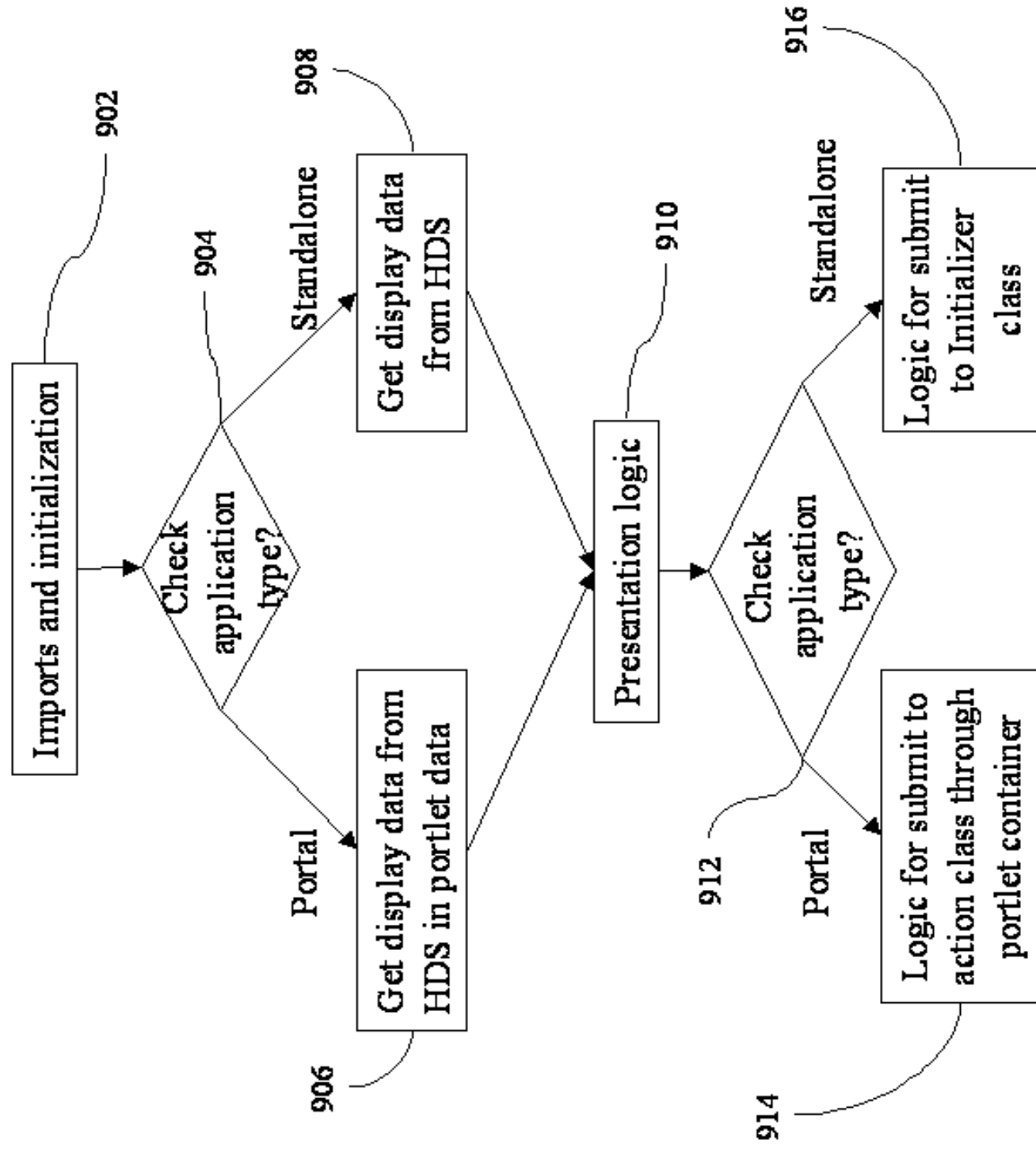


FIG. 9

```

Class Broker {
    Model model;
    Controller controller;
    Configuration configuration;
    .....
    public Broker() {
        configuration =Registry.getConfiguration();
        controller = new Controller(configuration);
    }
    public void executeRequest (String requestName) {
        ArrayList arrayActions = controller.getActionArray(requestName);
        String template = controller.getTemplate(requestName);
        for(int i=0;i< arrayActions.length();i++) {
            executeModel(arrayActions [i]);
        }
        setTemplateProcessor(template );
    }
    public void executeModel (String actionName) {
        Object model = controller.getModel(actionName);
        model.execute();
    }
    public void setTemplateProcessor(String template) {
        Registry.getHDSO.setTemplate(Registry.getTemplate(template));
    }
}

```

FIG. 10

```

Class ActionClass {
    String requestName=null;
    .....
    public ActionClass () {
    }
    protected void buildNormalContext(Portlet portlet, RunData runda) {
        Registry.getHDS().setParams(portlet.getPortletConfig().getInitParameters());
        Registry.getHDS().setParams(runda.getParameters());
        callBroker(Registry.getHDS().getRequest());
    }
    public void callBroker(String request) {
        Registry.getBroker().executeRequest(request);
    }
}

```

FIG. 11

```
abstract class Model {  
    abstract void execute() {  
    }  
}
```

```
public class SQLModel extends Model {  
    public Connection con = null;  
    public String actionName = null;  
    public SQLModel(String action) {  
        actionName = action;  
        try { Class.forName("hds.getDriver");  
            con = DriverManager.getConnection(hds.getDBO, hds.getUserO, hds.getPassword());  
        } catch (Exception e) {}  
    }  
    public void execute() {  
        stmt = con.createStatement();  
        ResultSet rs = null;  
        try { rs = stmt.executeQuery(Registry.getSQL(actionName));  
            Registry.updateHDS(rs);  
        } catch (Exception e) {}  
        finally { rs = null; con = null; }  
    }  
}
```

FIG. 12